

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P528688

Luminaire Tested: **GALN-SA3D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18780 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

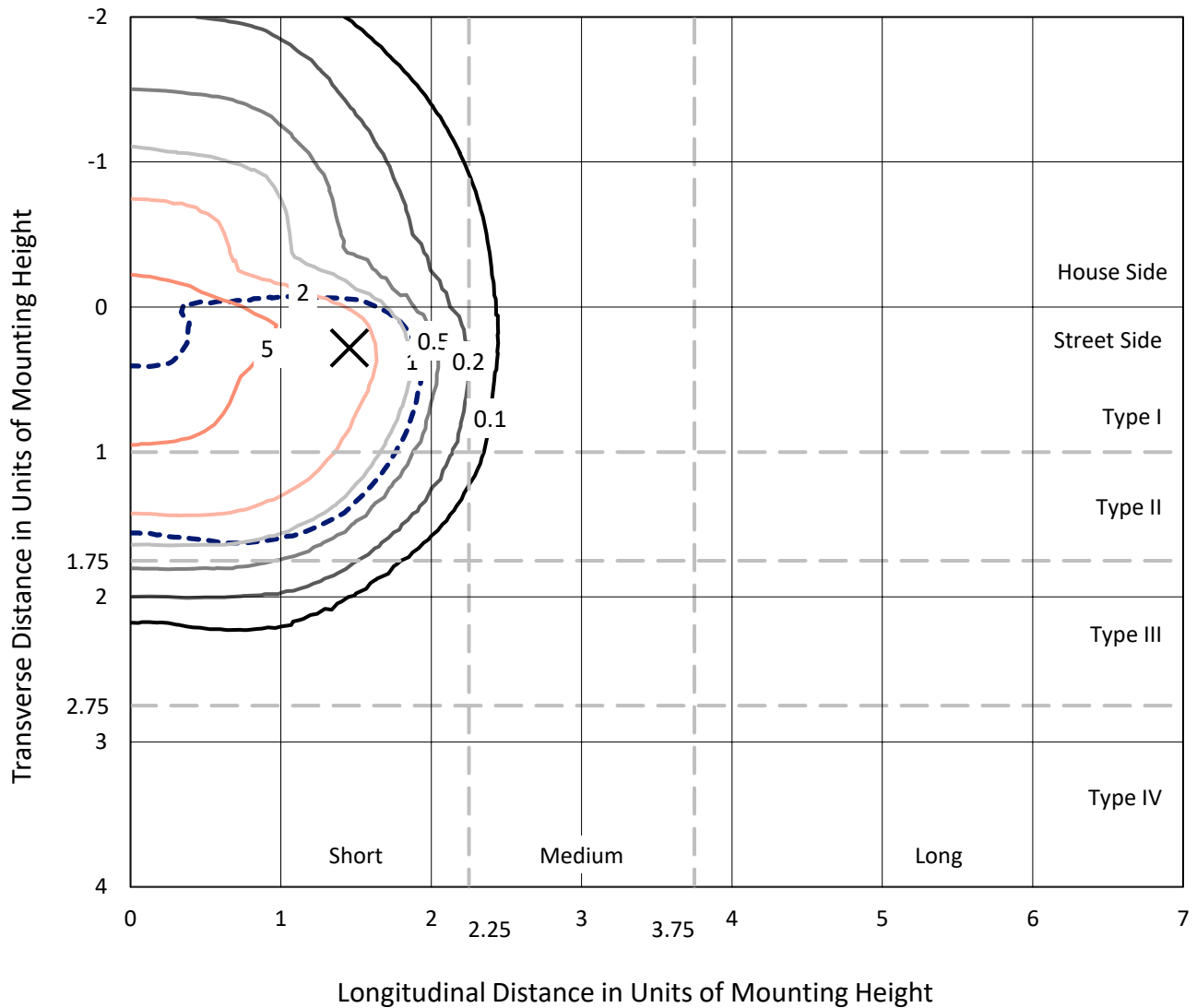
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528688
 CATALOG NUMBER: GALN-SA3D-735-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

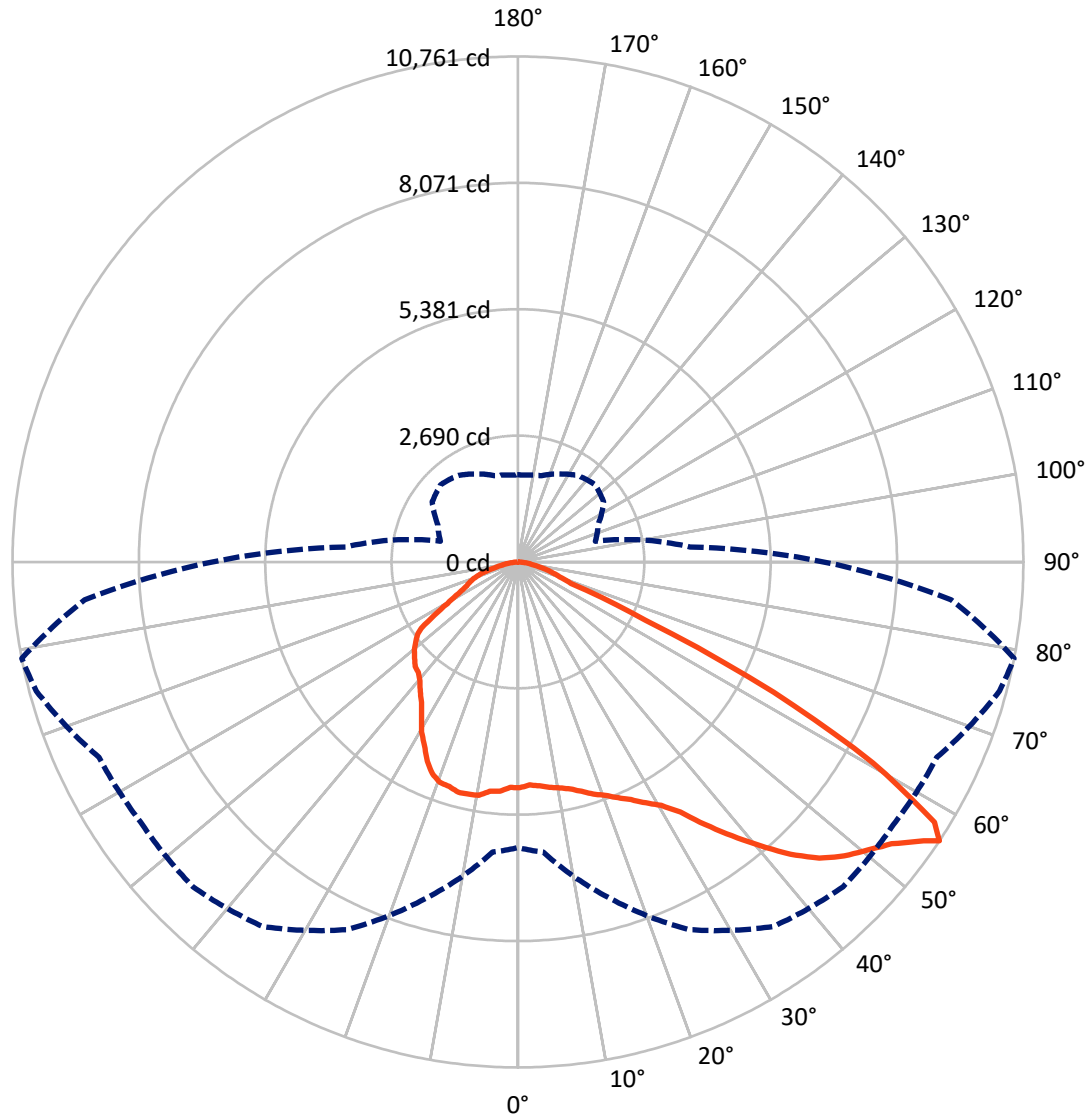
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

REPORT NUMBER: P528688
CATALOG NUMBER: GALN-SA3D-735-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P528688
 CATALOG NUMBER: GALN-SA3D-735-U-T3R-GRSWH

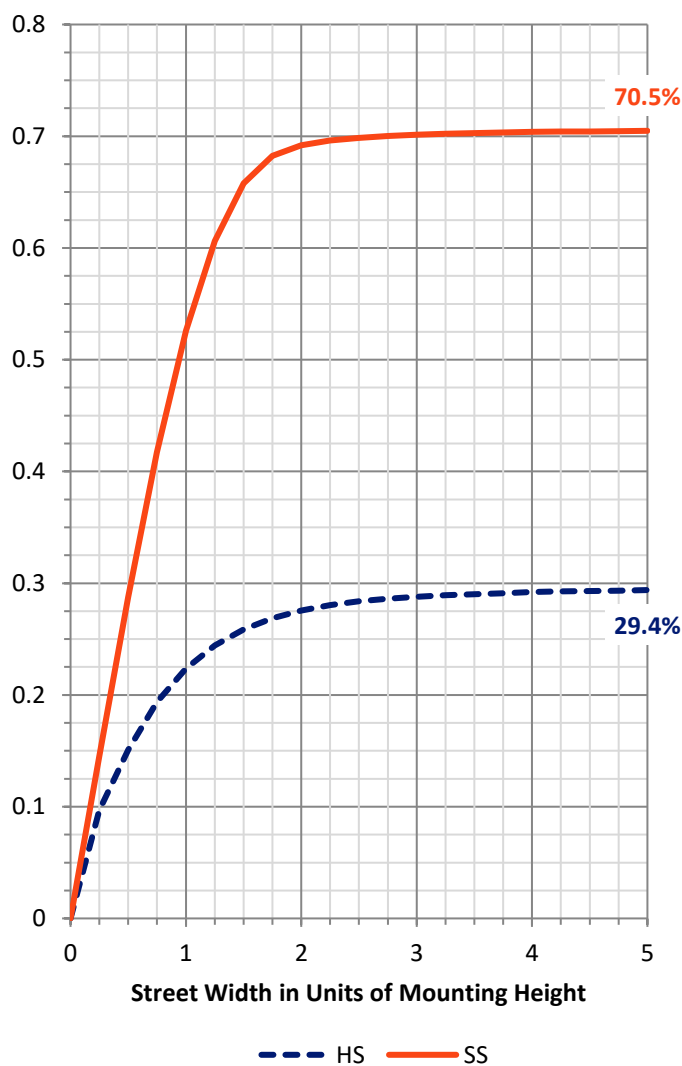
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5546.1	0.0	5546.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13233.9	0.0	13233.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	18780.0	0.0	18780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	2.3
10°-20°	1195.6	6.4
20°-30°	2045.4	10.9
30°-40°	3134.9	16.7
40°-50°	4236.8	22.6
50°-60°	4866.1	25.9
60°-70°	2218.1	11.8
70°-80°	546.9	2.9
80°-90°	99.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18780.0	100.0
0°-180°	18780.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528688

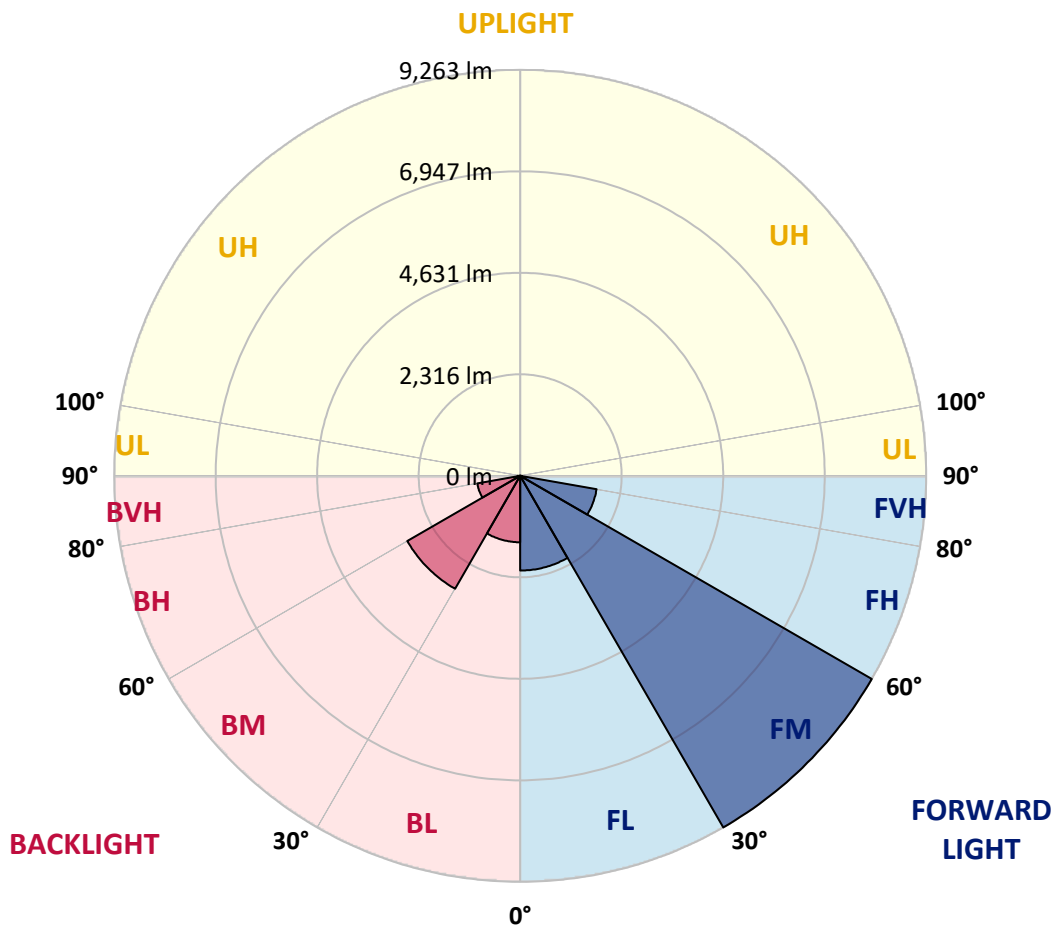
CATALOG NUMBER: GALN-SA3D-735-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2160.8	11.5			
FM (30°-60°)	9262.8	49.3			
FH (60°-80°)	1770.5	9.4			G1/1800
FVH (80°-90°)	39.7	0.2			G1/100
BL (0°-30°)	1517.1	8.1	B3/2500		
BM (30°-60°)	2974.9	15.8	B3/5000		
BH (60°-80°)	994.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	59.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P528688

CATALOG NUMBER: GALN-SA3D-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1
2.5°	4571.1	4559.4	4587.5	4608.6	4634.3	4667.0	4683.4	4692.8	4774.6	4753.6	4816.8
5°	4472.9	4442.5	4463.5	4479.9	4524.3	4564.1	4608.6	4678.7	4753.6	4786.3	4863.5
7.5°	4386.3	4369.9	4365.3	4377.0	4437.8	4489.2	4566.4	4669.4	4791.0	4844.8	4889.3
10°	4243.6	4220.2	4255.3	4332.5	4348.9	4456.5	4545.4	4692.8	4798.0	4891.6	5022.6
12.5°	4180.4	4157.1	4164.1	4208.5	4323.1	4426.1	4531.4	4697.4	4919.7	4957.1	5132.6
15°	4281.0	4257.6	4264.7	4253.0	4362.9	4416.7	4582.8	4791.0	5003.9	5067.1	5254.2
17.5°	4510.3	4512.6	4482.2	4456.5	4430.8	4545.4	4660.0	4847.2	5036.7	5195.7	5336.1
20°	4947.8	4870.6	4809.7	4664.7	4624.9	4674.1	4819.1	4999.2	5170.0	5301.0	5460.1
22.5°	5284.6	5291.6	5205.1	4966.5	4879.9	4901.0	5025.0	5172.3	5359.5	5453.1	5635.5
25°	5773.6	5724.4	5630.9	5441.4	5247.2	5263.6	5354.8	5488.2	5539.6	5605.1	5804.0
27.5°	6220.4	6234.4	6049.6	5871.8	5630.9	5584.1	5747.8	5771.2	5684.7	5808.6	5876.5
30°	6674.2	6662.5	6540.9	6332.7	6096.4	6105.7	6178.3	6063.6	5944.3	6012.2	6059.0
32.5°	7144.4	7011.1	7006.4	6819.3	6639.1	6552.6	6463.7	6519.8	6335.0	6349.0	6304.6
35°	7521.1	7539.8	7432.2	7298.8	7209.9	7057.9	6814.6	6915.2	6880.1	6863.7	6671.9
37.5°	7794.8	7722.2	7776.1	7731.6	7647.4	7457.9	7205.2	7301.2	7317.5	7397.1	7174.8
40°	8019.3	7988.9	8131.6	8155.0	8096.5	7687.2	7233.3	7518.7	7764.4	7937.5	7673.1
42.5°	8127.0	8192.5	8342.2	8522.3	8391.3	7953.8	7378.4	7684.8	8232.2	8505.9	8145.7
45°	8272.0	8187.8	8410.0	8739.9	8742.2	8178.4	7518.7	7909.4	8597.2	8994.9	8468.5
47.5°	8124.6	8166.7	8396.0	8814.7	8922.3	8414.7	7897.7	8227.6	8999.5	9352.8	8767.9
50°	7794.8	7879.0	8297.7	8732.9	9058.0	8665.0	8332.8	8571.4	9371.5	9640.5	8817.1
52.5°	7450.9	7497.7	8152.7	8796.0	9118.8	8987.8	8915.3	9046.3	9825.3	9965.7	8877.9
55°	6515.1	6737.4	7673.1	8767.9	9415.9	9570.3	9514.2	9706.0	10340.0	10480.4	9210.1
56°	6082.4	6199.3	7385.4	8636.9	9474.4	9783.2	9755.2	9841.7	10613.7	10761.1	9261.6
57.5°	5282.3	5291.6	6297.6	8056.8	9254.5	9846.4	9818.3	9886.2	10559.9	10459.3	8810.1
60°	3305.5	3450.6	4285.7	6197.0	7869.6	9135.2	9294.3	8749.2	8903.6	8690.7	6854.3
62.5°	1712.4	1691.4	2245.8	3623.7	5223.8	6540.9	6688.2	6662.5	6423.9	6112.8	4477.5
65°	853.9	858.5	1174.4	1794.3	2676.2	3424.8	3836.6	3881.0	3247.0	2987.4	2124.1
67.5°	619.9	643.3	844.5	1097.2	1260.9	1410.6	1728.8	1696.0	1284.3	1221.1	1132.3
70°	481.9	503.0	685.4	837.5	760.3	760.3	828.1	856.2	914.7	940.4	970.8
72.5°	350.9	367.3	524.0	577.8	498.3	535.7	619.9	685.4	746.3	755.6	790.7
75°	241.0	255.0	343.9	318.2	299.4	369.6	453.8	514.7	559.1	582.5	603.6
77.5°	156.7	161.4	196.5	166.1	191.8	238.6	294.8	346.2	390.7	409.4	414.1
80°	70.2	77.2	84.2	105.3	133.3	170.8	210.5	252.7	280.7	287.7	301.8
82.5°	39.8	39.8	51.5	74.9	98.3	124.0	152.1	182.5	215.2	222.2	219.9
85°	21.1	21.1	30.4	44.4	60.8	72.5	70.2	72.5	77.2	88.9	86.6
87.5°	7.0	7.0	9.4	9.4	11.7	14.0	11.7	16.4	21.1	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528688

CATALOG NUMBER: GALN-SA3D-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1	4805.1
2.5°	4798.0	4819.1	4791.0	4851.8	4851.8	4840.1	4781.7	4800.4	4814.4	4814.4	4826.1
5°	4889.3	4882.3	4901.0	4828.5	4784.0	4767.6	4671.7	4624.9	4585.2	4582.8	4547.7
7.5°	4940.7	4922.0	4915.0	4861.2	4664.7	4545.4	4339.5	4220.2	4194.5	4103.2	4138.3
10°	5022.6	5057.7	5022.6	4730.2	4456.5	4182.8	3981.6	3796.8	3724.3	3665.8	3630.7
12.5°	5191.1	5174.7	4971.2	4575.8	4192.1	3867.0	3567.5	3373.4	3300.8	3249.4	3244.7
15°	5333.8	5251.9	4940.7	4332.5	3780.4	3434.2	3188.6	3050.5	3017.8	3022.5	3043.5
17.5°	5382.9	5326.7	4781.7	4079.9	3474.0	3066.9	2952.3	2931.2	2961.6	2996.7	3006.1
20°	5460.1	5371.2	4716.2	3736.0	3095.0	2837.7	2830.6	2905.5	2961.6	3013.1	3020.1
22.5°	5621.5	5396.9	4503.3	3410.8	2835.3	2769.8	2837.7	2900.8	2987.4	3029.5	2992.0
25°	5668.3	5340.8	4203.8	3020.1	2671.6	2727.7	2800.2	2886.8	2947.6	2971.0	2987.4
27.5°	5708.1	5254.2	3799.1	2760.5	2620.1	2725.4	2800.2	2872.7	2905.5	2926.5	2945.3
30°	5820.3	5228.5	3448.2	2587.3	2587.3	2678.6	2774.5	2793.2	2837.7	2863.4	2896.1
32.5°	5876.5	5050.7	3088.0	2477.4	2554.6	2702.0	2709.0	2744.1	2746.4	2767.5	2732.4
35°	6023.9	4924.4	2753.4	2397.9	2568.6	2678.6	2713.7	2692.6	2578.0	2521.8	2533.5
37.5°	6131.5	4861.2	2512.5	2388.5	2571.0	2704.3	2723.0	2563.9	2444.6	2351.1	2374.5
40°	6421.6	4704.5	2330.0	2372.1	2592.0	2732.4	2680.9	2507.8	2292.6	2196.7	2180.3
42.5°	6643.8	4592.2	2215.4	2353.4	2608.4	2772.1	2659.9	2395.5	2175.6	2086.7	2110.1
45°	6901.1	4566.4	2154.6	2358.1	2636.5	2793.2	2634.1	2309.0	2075.0	2039.9	2032.9
47.5°	6992.4	4381.6	2089.1	2318.3	2629.4	2786.2	2547.6	2243.5	2037.6	2042.3	2061.0
50°	6840.3	4192.1	2039.9	2236.4	2582.7	2723.0	2411.9	2156.9	2016.5	2075.0	2107.8
52.5°	6646.1	3998.0	1939.3	2126.5	2486.7	2624.8	2348.7	2152.2	1995.5	1976.8	1983.8
55°	6704.6	3838.9	1799.0	1976.8	2332.3	2442.3	2278.5	2107.8	1944.0	1873.8	1897.2
56°	6515.1	3675.1	1707.7	1883.2	2227.1	2325.3	2243.5	2068.0	1901.9	1855.1	1855.1
57.5°	5979.4	3125.4	1588.4	1733.5	2004.8	2121.8	2175.6	2044.6	1855.1	1773.2	1775.6
60°	4409.7	2222.4	1424.7	1527.6	1661.0	1754.5	2004.8	1979.1	1738.1	1682.0	1661.0
62.5°	2718.3	1623.5	1307.7	1347.5	1415.3	1492.5	1749.8	1792.0	1614.2	1553.3	1539.3
65°	1522.9	1242.2	1218.8	1235.2	1267.9	1307.7	1452.7	1546.3	1424.7	1331.1	1326.4
67.5°	1113.5	1111.2	1129.9	1144.0	1158.0	1158.0	1193.1	1230.5	1214.1	1139.3	1132.3
70°	989.6	996.6	1010.6	1012.9	1017.6	1001.2	973.2	961.5	980.2	933.4	924.0
72.5°	816.4	839.8	856.2	858.5	832.8	811.8	774.3	734.6	720.5	711.2	708.8
75°	627.0	643.3	650.3	648.0	638.6	608.2	563.8	524.0	498.3	470.2	484.2
77.5°	423.4	446.8	458.5	458.5	444.5	397.7	376.6	346.2	320.5	290.1	294.8
80°	297.1	313.5	332.2	329.9	306.5	283.1	252.7	224.6	203.5	180.1	177.8
82.5°	222.2	231.6	241.0	236.3	219.9	196.5	175.5	149.7	126.3	110.0	110.0
85°	79.5	86.6	105.3	110.0	119.3	119.3	100.6	84.2	67.8	56.1	56.1
87.5°	23.4	23.4	25.7	25.7	23.4	25.7	21.1	23.4	25.7	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)